## INTERNATIONAL SEARCH REPORT

International application No. PCT/SG2004/000333

A.	CLASSIFICATION OF SUBJECT MATTER	R							
Int. Cl. <sup>7</sup> :	G11C 11/15								
According to	International Patent Classification (IPC) or to	both nat	ional classification and IPC	<del></del>					
В.	FIELDS SEARCHED		·						
Minimum docu	mentation searched (classification system followed	d by class	ification symbols)						
Documentation	searched other than minimum documentation to the	he extent	that such documents are included in the fields search	hed					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: IPC G11C 11/15 and keywords: magnetoresistive random access memory, synthetic antiferromagnetic pinned, layer, heat, thermal, ferromagnetic, antiferromagnetic, pinned and similar terms									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, wher	Relevant to claim No.							
Р, А	US 6728132 B (DEAK) 27 April 2004 Entire document			1-21					
P, A	US 2003/0198113 A (ABRAHAM et al Entire document	1-21							
Α	US 2002/0089874 A (NICKEL et al.) 1 Entire document	l I July 2	2002	1-21					
A	US 6418048 B (SIN et al.) 9 July 2002 Entire document			1-21					
X F	urther documents are listed in the continu	uation o	f Box C X See patent family annu	ex					
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or priority date and conflict with the application but cited to understand the principle or theory underlying the invention									
	earlier application or patent but published on or after the "X" doc international filing date or or		ment of particular relevance; the claimed invention cannot nnot be considered to involve an inventive step when the						
or which	or which is cited to establish the publication date of inv		ment of particular relevance; the claimed invention cannot we an inventive step when the document is combined with	one or more other					
	citation or other special reason (as specified) nt referring to an oral disclosure, use, exhibition means		documents, such combination being obvious to a person st ment member of the same patent family	kined in the art					
but later	nt published prior to the international filing date than the priority date claimed		· · ·						
Date of the act	ual completion of the international search r 2004	Date of mailing of the international search report 0	6 JAN 2005						
Name and mail	ing address of the ISA/AU		Authorized officer						
PO BOX 200, E-mail address	I PATENT OFFICE WODEN ACT 2606, AUSTRALIA : pct@ipaustralia.gov.au (02) 6285 3929		JOHN THOMSON Telephone No : (02) 6283 2214						
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International application No.
PCT/SG2004/000333

C (Continuation	on). DOCUMENTS CONSIDERED TO BE RELEVANT	-					
Category*	Citation of document, with indication, where appropriate, of the relevant passages						
Α	US 6385082 B (ABRAHAM et al.) 7 May 2002 Entire document	1-21					
		!					

## INTERNATIONAL SEARCH REPORT

International application No.

Information on patent family members

PCT/SG2004/000333

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
US	6728132	US	2003189842	US	2004152218	wo	03085674	
US	2003198113	wo	03092014	-				
US	2002089874	CN	1365117	EP	1225592	JP	2002245774	
		US	2003123282					
US	6418048	NONE						
US	6385082	NONE						

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX